

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau

(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/023026 A1(51) International Patent Classification⁷: F16L 58/10, 57/06 (74) Agents: BONZAGNI, Mary, R. et al.; Holland & Bonzagni, P.C., 171 Dwight Road, Suite 302, Longmeadow, MA 01106-1700 (US).

(21) International Application Number:

PCT/US2003/027867

(22) International Filing Date:

5 September 2003 (05.09.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/409,708 9 September 2002 (09.09.2002) US

(71) Applicants (for all designated States except US): TITE-FLEX CORPORATION [US/US]; 603 Hendee Street, Springfield, MA 01139-0054 (US). DOW CORNING CORPORATION [US/US]; 2200 West Salzburg Road, Midland, MI 48686 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BLANCHARD, Ralph, T. [US/US]; 191 N. Westfield Street, Feeding Hills, MA 01030 (US). FONFARA, Michael [US/US]; 34 Lyman Road, Chicopee, MA 01013 (US). RABE, Richard, L. [US/US]; N1658 Hagen Road, LaCrosse, WI 54601 (US). CUCCIOLO, Fernando, A. [AR/US]; 4309 Stone Ridge, Midland, MI 48640 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

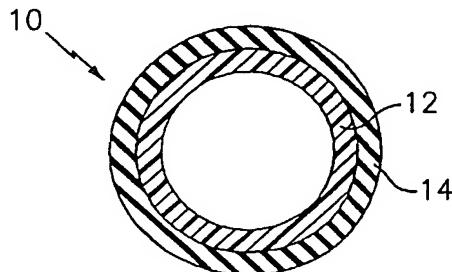
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A FLEXIBLE, KINK RESISTANT, FLUID TRANSFER HOSE CONSTRUCTION



(57) Abstract: A flexible, kink resistant, fluid transfer hose construction that employs a flexible and abrasion-resistant protective jacket is provided. The protective jacket demonstrates the necessary mechanical properties to be included under a crimped sleeve or collar of a hose coupling, thereby increasing the useful life of the hose by, for example, preventing damaging chemicals from accessing underlying layers at each end of the hose construction.